PATENT COOPERATION TREATY **PCT**

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PCT WIPO INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JNI01.09P	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No. PCT/AU2004/001507	International filing date (day/month/y 29 October 2004	Priority date (day/month/year) 31 October 2003		
International Patent Classification (IPC) or	national classification and IPC			
Int. Cl. ⁷ G06K 9/00		·		
Applicant THE UNIVERSITY OF QUEEN	ISLAND et al			
	tted to the applicant according to Artici	this International Preliminary Examining le 36.		
2. This REPORT consists of a total of 3				
3. This report is also accompanied by AN		6.11		
L	,	eets, as follows:		
sheets of the description, sheets containing rectific Administrative Instruction	ations authorized by this Authority (see	en amended and are the basis for this report and/or e Rule 70.16 and Section 607 of the		
the disclosure in the inter Box.	mational application as filed, as indicat	considers contain an amendment that goes beyond ed in item 4 of Box No. I and the Supplemental		
a sequence listing and/or table	eau only) a total of (indicate type and me related thereto, in computer readable for (see Section 802 of the Administrative)	form only, as indicated in the Supplemental Box		
4. This report contains indications relating				
X Box No. I Basis of the rep	o. I Basis of the report			
Box No. II Priority	· · · · · · · · · · · · · · · · · · ·			
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain docume	Certain documents cited			
Box No. VII Certain defects	Certain defects in the international application			
Box No. VIII Certain observa	Certain observations on the international application			
Date of submission of the demand	Date of comp	pletion of the report		
12 April 2005	30 Septemb	per 2005		
Name and mailing address of the IPEA/AU	Authorized Of	fficer		
AUSTRALIAN PATENT OFFICE				
PO BOX 200, WODEN ACT 2606, AUSTR E-mail address: pct@ipaustralia.gov.au		W HOLLINGWORTH		
Facsimile No. (02) 6285 3929	Telephone N	Telephone No. (02) 6283 2024		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001507

With regard to the language, this report is based on the international application in the language in which it was filed,	umess			
Box No. I Basis of the report With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.				
This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:				
international search (under Rules 12.3 and 23.1 (b))				
publication of the international application (under Rule 12.4)				
international preliminary examination (under Rules 55.2 and/or 55.3)				
With regard to the elements of the international application, this report is based on (replacement sheets which have be furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "origina filed" and are not annexed to this report):	en lly			
X the international application as originally filed/furnished	Ì			
the description:				
pages as originally filed/furnished				
pages* received by this Authority on with the letter of				
pages* received by this Authority on with the letter of				
the claims:	ł			
pages as originally filed/furnished				
pages* as amended (together with any statement) under Article 19				
pages* received by this Authority on with the letter of				
pages* received by this Authority on with the letter of				
the drawings:				
pages as originally filed/furnished				
pages* received by this Authority on with the letter of				
pages* received by this Authority on with the letter of				
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3. The amendments have resulted in the cancellation of:				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
* If item 4 applies, some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2004/001507

ox No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

citations and capitalists of the		
Statement	•	·
Novelty-(N)	Claims 1-18	YES
	Claims	NO
Inventive step (IS)	Claims 1-18	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-18	YES
	Claims	NO
	<u></u>	

Citations and explanations (Rule 70.7)

- D1: Downs, T. et al, Exact Simplification of Support Vector Solutions
- D2: Lee, Y.- J. et al, RSVM: Reduced Support Vector Machines
- D3: Fung, G. M. et al, Minimal Kernel Classifiers
- D4: US 2003/0093393 A1 (MANGASARIAN et al), 15 May 2003
- D5: US 6,134,344 A (BURGES), 17 October 2000

The above documents represent the closest available prior art. The features of the claimed invention are not disclosed in these documents, or in any others published before the earliest priority date. In particular, the minimisation of the sum of distances of a linearly independent set of support vectors appears to be novel and inventive.